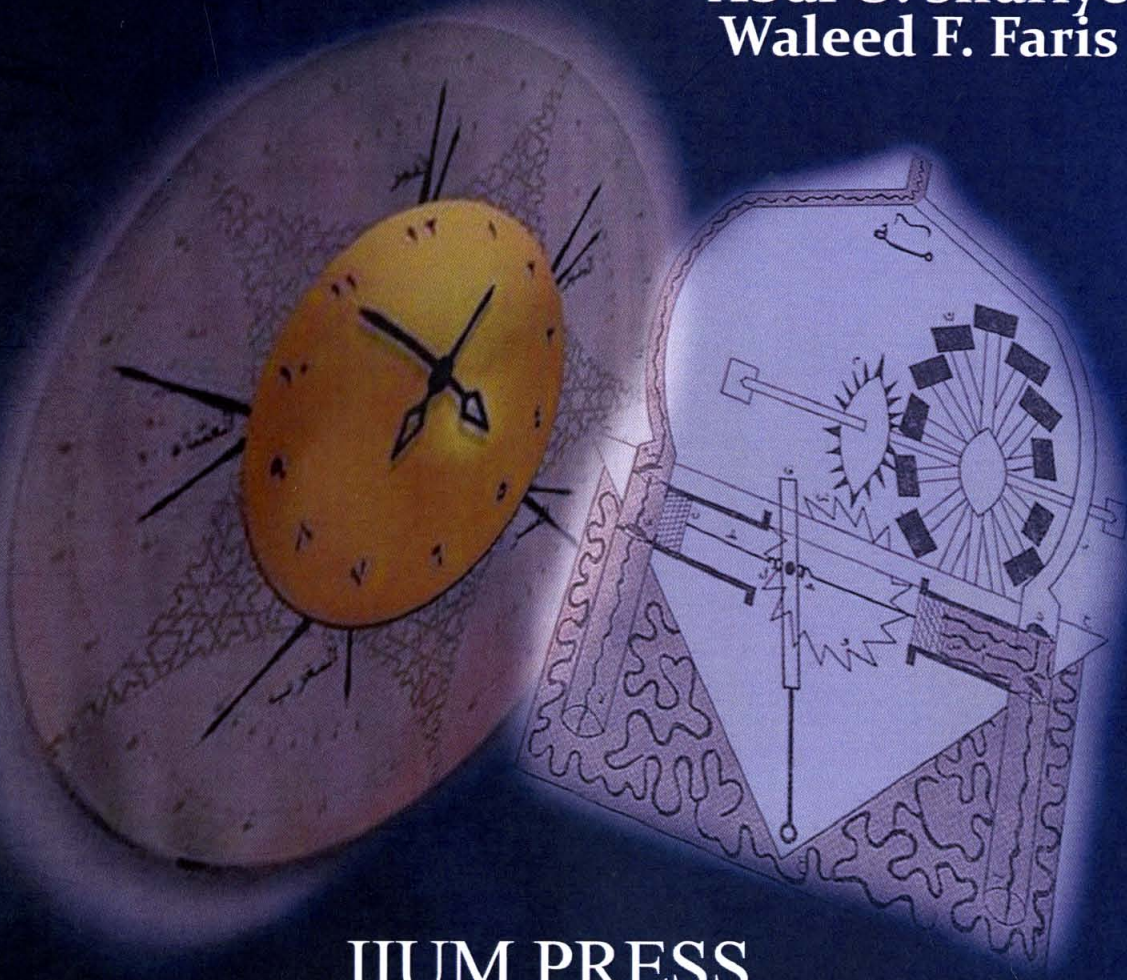


# Contributions of Early Muslim Scientists to Engineering Studies and Related Sciences

Abdi O. Shuriye  
Waleed F. Faris



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INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA





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## **Editors**

Abdi O. Shuriye  
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## *Contents*

### TITLE

Preface	v
Acknowledgment	vi
Lists of Contributors	vii
Introduction	1
Chapter 1 Al-Battani's Contribution to Astronomy	3
Chapter 2 Safiha by Al-Zarqali	8
Chapter 3 Ibn Al Shatir's Influence on Modern Astronomy	12
Chapter 4 I-Zarqali on Instrumentation	19
Chapter 5 Contributions of Al-Razi on Alchemy in Terms of Metal and Substance	24
Chapter 6 Jabir Ibn Hayyan's Work on Sulphur-Mercury Theory	30
Chapter 7 The Contribution of Hassan Al-Rammah to Gunpowder and Rocket Technology	36
Chapter 8 The Contribution of Ibn Al-Awwam in Botany and Agriculture	41
Chapter 9 Al-Battani Contributions in Astronomy and Mathematics	45
Chapter 10 Al-Biruni's Views on the Discovery of the Spherical Earth	49
Chapter 11 Al-Kashi and Access to the Arithmetic & Astronomy	53
Chapter 12 Nasir Al-Din Al-Tusi's Understanding of Trigonometry	58
Chapter 13 Al-Biruni's Experimental Scientific Methods in Mechanics	65
Chapter 14 Al-Haytham's Understanding of Physical Nature of Light	70
Chapter 15 Contributions of Ibn Al-Haytham on Optics	74
Chapter 16 Energy Particle-Physics: The Efforts of Abdel Nasser Tawfik	80
Chapter 17 Mahmoud Hessaby's Contribution to the Infinitely Extended Particles Theory in Quantum Physics	86
Chapter 18 The Contribution of Ibn Ishaq Al-Kindi to Light, Optics and Cryptology	91
Chapter 19 The Contribution of Ibn Sahl in Refraction of Light	95
Chapter 20 Al Kindi on Pharmacology	103
Chapter 21 Contributions of Kerim Kerimov in Aerospace Engineering	110
Chapter 22 Fazlur Rahman Khan's Understanding of Tube Structural System of Skyscrapers	115

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Chapter 23	Contribution of Lofti Asker Zadeh to Fuzzy Logic	121
Chapter 24	The Nano World of Munir Nahfey	127
Chapter 25	Abbas Ibn Firnas's Contribution in Aviation	135
Chapter 26	Al- Jazari Contribution to the Development of Water Supply System	139
Chapter 27	Contribution of Tipu Sultan to Rocket Technology	143
Chapter 28	The Contributions of Al - Khazini in the Development of Hydrostatic Balance and its Functionality	147
Chapter 29	The Contribution of Banu Musa Brothers in the Self Changing Fountain	155
Chapter 30	The Invention of the Helium-Neon Gas Laser by Ali Javan	160
Chapter 31	Al-Jazari on Automata	165

# **CHAPTER TWENTY ONE**

## **CONTRIBUTIONS OF KERIM KERIMOV IN AEROSPACE**

### **ENGINEERING**

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#### **21.1 INTRODUCTION**

The objective of this research is to study the contributions of the person behind Rusia's achievement in space exploration. The significance of this chapter shows that a good leader is important to ensure the all missions are performed smoothly, capable to overcome and rectify problems quickly. The methodology adopted in this chapter is based on data collection from library and other trustworthy sources. This chapter explores early development and achievement in space exploration during Kerim Kerimov's life. Prior to 1987, Kerim Kerimov was not known to public even though his contributions in space research were vast. He had dedicated himself to the space researches throughout his life and contributed to the development of space exploration in his country. For more than 25 years involvement in aerospace industry, he had launched many astronauts and spacecrafts such as *Vostok 1*, *Molniya*, *Soyuz 11* and so on. However, not all missions were successfully accomplished. Failure teaches people to be more creative, innovative and dare to take risks because there is no victory without efforts.

#### **21.2 EARLY DEVELOPMENT OF SPACE EXPLORATION**

Kerim Kerimov who was an Azerbaijan-Russia aerospace engineer, was born on 14 November 1917 in Baku and passed away on 25 March 2003 in Moscow. In 1942, he graduated from Azerbaijan Industrial Institute and continued his study at Dzerzhinsky Artillery Academy which is one of Soviet military academies. At Artillery Academy, he dedicated himself to design and development of space vehicle systems (<http://www.science.az/en/cat.php?fid=kerimov>).

His first achievement was discovered in 1943 when he did his diploma project titled 'A Shop for Production of Mortar' and received the 'Red Star' award (<http://peopleofrussia.com/biography-kerim-kerimov.html#more-202>). At the beginning of World War II, ballistic missile V-2 or its technical name Aggregat-4 was under development in German. It was the world's first long-range combat-ballistic missiles which were used to bomb London([http://www.azer.com/aiweb/categories/magazine/33\\_folder/33\\_articles/33\\_soviet\\_aero.html](http://www.azer.com/aiweb/categories/magazine/33_folder/33_articles/33_soviet_aero.html)). After the World War II, Kerim Kerimov was transferred to Nordhausen in